

Product datasheet for **SC324508**

Gelsolin (GSN) (NM_198252) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gelsolin (GSN) (NM_198252) Human Untagged Clone
Tag:	Tag Free
Symbol:	Gelsolin
Synonyms:	ADF; AGEL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_198252.2
 CCACCATGGCTCCGCACCCGCCCGCCCGCTGCTTTGCGCGCTGTCCCTGGCGCTGT
 GCGCGCTGTGCTGCCCCGCGCGGCCACTGCGTGGCGGGGGCGTCCCAGGCGGGG
 CGCCCCAGGGCGGGTCCCCGAGGCGGGCCCAACAGCATGGTGGTGAACACCCCGAGT
 TCCTCAAGGCAGGAAGGAGCCTGGCCTGCAGATCTGGCGTGTGGAGAAGTTCGATCTGG
 TGCCCCGTGCCACCAACCTTTATGGAGACTTCTCACGGGCGACGCTACGTCATCTGA
 AGACAGTGCAGCTGAGGAACGGAATCTGCAGTATGACCTCCACTACTGGCTGGCAATG
 AGTGCAGCCAGGATGAGAGCGGGCGGCCATCTTTACCGTGCAGCTGGATGACTACC
 TGAACGGCCGGCCGTGCAGCACCGTGAGGTCCAGGGCTTCGAGTCGGCCACCTTCTAG
 GCTACTTCAAGTCTGGCCTGAAGTACAAGAAAGGAGGTGTGGCATCAGGATTCAAGCACG
 TGGTACCAACGAGGTGGTGGTGCAGAGACTCTTCCAGGTCAAAGGGCGGCGTGTGGTCC
 GTGCCACCGAGGTACCTGTGCTGGGAGAGCTTCAACAATGGCGACTGCTTCATCTGG
 ACCTGGGCAACAACATCCACCAGTGGTGTGGTCCAACAGCAATCGGTATGAAAGACTGA
 AGGCCACACAGGTGTCCAAGGCATCCGGGACAACGAGCGGAGTGGCCGGGCCGAGTGC
 ACGTGTCTGAGGAGGGCACTGAGCCCGAGGCGATGCTCCAGGTGTGGGCCCAAGCCGG
 CTCTGCCTGCAGGTACCGAGGACACCGCAAGGAGGATGCGGCCAACCGCAAGCTGGCCA
 AGCTCTACAAGGTCTCCAATGGTGCAGGGACCATGTCCGTCTCCCTCGTGCTGATGAGA
 ACCCTTCGCCAGGGGGCCCTGAAGTCAGAGGACTGCTTCATCTGGACCACGGCAAAG
 ATGGGAAAATCTTTGTCTGGAAAGGCAAGCAGGCAACACGGAGGAGAGGAAGGCTGCC
 TCAAAACAGCCTCTGACTTATCACCAAGATGGACTACCCCAAGCAGACTCAGGTCTCGG
 TCCTTCTGAGGGCGGTGAGACCCACTGTTCAAGCAGTCTTCAAGAACTGGCGGGACC
 CAGACCAGACAGATGGCCTGGGCTTGTCTACCTTTCCAGCCATATCGCCAACGTGGAGC
 GGGTGCCTTCGACGCCGCCACCCTGCACACCTCCACTGCCATGGCCGCCAGCACGGCA
 TGGATGACGATGGCACAGGCCAGAAACAGATCTGGAGAATCGAAGGTTCCAACAAGGTGC
 CCGTGGACCTGCCACATATGGACAGTTCTATGGAGGCGACAGCTACATATTCTGTACA
 ACTACGCCATGGTGGCCGCCAGGGGCAGATAATCTATAACTGGCAGGGTGGCCAGTCTA
 CCCAGGATGAGGTGCTGCATCTGCCATCTGACTGCTCAGTGGATGAGGAGCTGGGAG
 GTACCCCTGTCCAGAGCCGTGTGGTCCAAGGCAAGGAGCCGCCACCTCATGAGCTGT
 TTGGTGGAAAGCCATGATCATCTACAAGGGCGGCACCTCCCGAGGGCGGGCAGACAG
 CCCCTGCCAGCACCCGCCTTCCAGGTCCGCGCCAACAGCGCTGGAGCCACCCGGGCTG
 TTGAGGTATTGCCTAAGGCTGGTGCAGTGAACCTCAACGATGCCTTTGTTCTGAAAACCC
 CCTCAGCCGCCTACCTGTGGGTGGTACAGGAGCCAGCGAGGCAGAGAAGACGGGGGCC
 AGGAGCTGCTCAGGGTGTGCGGGCCCAACCTGTGCAGGTGGCAGAAGGCAGCGAGCCAG
 ATGGCTTCTGGGAGGCCCTGGGCGGGAAGGCTGCCTACCGCACATCCCCACGGTGAAGG
 ACAAGAAGATGGATGCCATCCTCCTCGCTCTTTGCCTGCTCCAACAAGATTGGACGTT
 TTGTGATCGAAGAGGTTCTGTTGAGCTCATGCAGGAAGACCTGGCAACGGATGACGTCA
 TGCTTCTGGACACCTGGGACCAGGTCTTTGTCTGGGTTGAAAGGATTCTCAAGAAGAAG
 AAAAGACAGAAGCCTTGACTTCTGCTAAGCGGTACATCGAGACGGACCCAGCCAATCGGG
 ATCGGCGGACGCCATCACCGTGGTGAAGCAAGGCTTTGAGCCTCCCTCTTTGTGGGCT
 GGTTCTTGGCTGGGATGATGATTACTGTCTGTGGACCCCTGGACAGGGCCATGGCTG
 AGCTGGCTGCCTGAGGAGGGCAGGGCCACCCATGTCACCGGTGAGTGCCTTTTGAAC
 TGTCTTCCCTCAAAGAGGCCTTAGAGCGAGCAGAGCAGCTCTGCTATGAGTGTGTGT
 GTGTGTGTGTTGTTTTTTTTTTTTTTTTTACAGTATCCAAAAATAGCCCTGCAAAAAAT
 CAGAGTCTTGA AAAATGTCTAAAATGTCAGTGTGGGAAATTAATCCAATAAAAAAC
 ATTTTGAAGTGTAA
 AAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_198252

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_198252.2](#), [NP_937895.1](#)

RefSeq Size: 2685 bp

RefSeq ORF: 2196 bp

Locus ID: 2934

UniProt ID: [P06396](#)

Cytogenetics: 9q33.2

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Fc gamma R-mediated phagocytosis, Regulation of actin cytoskeleton

Gene Summary:

The protein encoded by this gene binds to the "plus" ends of actin monomers and filaments to prevent monomer exchange. The encoded calcium-regulated protein functions in both assembly and disassembly of actin filaments. Defects in this gene are a cause of familial amyloidosis Finnish type (FAF). Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (b) has a shorter N-terminus compared to isoform a. Variants 2, 3, 5, 6, and 11-20 all encode isoform b.